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(54) **FIRE/SMOKE PROTECTION ZONE FORMATION SYSTEM**

(57) Abstract:

PROBLEM TO BE SOLVED: To facilitate installation of a system inside a building and secure an escape route allowing evacuees to quickly escape even after zones are formed.

SOLUTION: The fire/smoke protection zone formation system uses air curtains and water mist curtains to form a plurality of zones in space inside the building and separate the inside of the building from the outside. The air curtains are formed by gas spit out of nozzles to control the flow of smoke from the zone where a fire has occurred to other zones. The water mist curtains are created by spraying water particles with average particle diameters of 40 to 400 microns (Sauter's mean diameters) in the form of films from spray nozzles.

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